

MUSHKIN, V.; KAYGORODOV, V.

Automatic equipment for recurrent heating of engines. Avt. transp.  
36 no. 5:11-12 My '58. (MIRA 11:6)  
(Automobiles--Cold weather operation)

KAYGORODOV, V.

Coordinate garage designs with operating conditions of automotive  
transportation units. Avt. transp. 36 no. 6:44 Je '58. (MIRA 11:7)

1. Glavnnyy inzhener Novosibirskogo avtotresta.  
(Garages)

KAYGORODOV, V.

Shop committee initiates the mechanization of labor consuming processes. Sov. profsoiuzy 7 no.17:22-23 S '59.  
(MIRA 12:11)

1. Predsedatel' komiteta profsoyuza elektroliznogo tsekha Ural'skogo  
alyuminiyevogo zavoda.  
(Electrolysis--Technological innovations)

KAYGORODOV, V., inzh.; RUZHINSKIY, A., inzh.

Campaign using visual aids in an automotive transportation unit.  
(MIRA 13:9)  
Avt. transp. 38 no. 9:9-10 S '60.

1. Novosibirskiy goravtotrest.  
(Novosibirsk--Transportation, Automotive)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721220011-5

The secondary spectral source was an  $\alpha\text{-C}$  carbon arc. The spectra were photographed with a

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ACCESSTION NO.: A 7

CLASSIFICATION: UNCLASSIFIED

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220011-5"

KARYAKIN, A. V.; AKHMANOVA, M. V.; KAYGORODOV, V. A. Moscow

"Moglichkeiten zur Anwendung eines Impulslasers in der Spektralanalyse reiner Stoffe."

report submitted for 2nd Intl Symp on Hyperpure Materials in Science and Technology, Dresden, GDR, 28 Sep-2 Oct 65.

Institut geokhimii i analiticheskoy khimii im Vernadskiy Akademii nauk SSSR, Moscow.

KARYAKIN, A.V.; KAYGORODOV, V.A.; AKHMANOVA, M.V.

Two-stage method of excitation of spectra. Zhur.prikl. spekt. 2  
no.4:364-366 Ap '65. (MIRA 18:8)

PETROV, A.Z.; KAYGORODOV, V.R.; ABDULLIN, V.N.

Classification of general type gravitation fields with respect to motion groups. Part 1. Izv.vys.ucheb.zav.; mat.  
no.6:118-130 '59. (MIRA 13:3)

1. Kazanskiy gosudarstvennyy universitet im. V.I.Ulyanova-Lenina.  
(Gravitation)

PETROV, A.Z.; KAYGORODOV, V.R.; ABDULLIN, V.N.

Classification of general type gravitation fields with respect to  
motion groups. Part 2. Izv.vys.ucheb.zav.; mat. no.1:175-187  
'60. (MIRA 13:6)

1. Kazanskiy gosudarstvennyy universitet imeni V.I.Ulyanova-  
Lenina.  
(Gravitation)

20299

S/140/60/000/004/019/023xx  
D221/D306

24.4200

AUTHORS: Petrov, A.Z., Kaygorodov, V.R., and Abdullin V.N.

TITLE: Classification of the gravitational fields of a general form according to the groups of motions. III

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika,  
no. 4, 1960, 158-169

TEXT: This paper is a continuation of earlier contributions by the authors published in this journal under the same title (Ref. 1: I. Izv. vuzov, Matem., no. 6, 1959); (Ref. 2: II. Izv. vuzov, Matem., no. 1, 1960) and its subject is the classification of the real gravitational fields of a general form admitting the transitive and non-transitive groups of motions  $G_4$ . All designations are the same as in the earlier two papers. The first describes the gravitational fields admitting non-transitive groups of motions  $G_4$  on  $V_3$ . Each group of motions  $G_r$  ( $3 < r \leq 5$ ) in  $V_4$  admits a sub-

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Classification of the ...

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group  $G_{r-1}$  as cited by I.P. Yegorov (Ref. 4: O dvizheniyakh v prostranstvakh affinnoy svyaznosti (On Movements in Spaces of Affine Connections) Doktorsk, diss., arkhiv MGU, 1955). Consequently,  $V_4$  with non-transitive  $G_4$  acting on  $V_3$ , are included among  $V_4$  admitting  $G_3$ , and it is possible to apply the following algorithm: 1) Using the classification of non-isomorphous structures  $G_4$  as given in (Ref. 1: Op.cit.) and by means of the operators of the group  $G_3$  as given in Ref. 2 (Op.cit.), the fourth operator  $X_4$  is determined from the equations of the structure  $G_4$ ; 2) Integrating the Killing's equations for  $X_4$  and using the permissible transformations, the canonical form of the metrics in question is found. Any subgroup  $G_3$  included in  $G_4$  can be taken. This  $G_3$  can act on  $V_3$ ,  $V_2$  or  $V_2^*$ . It is assumed that  $G_4$  acting on  $V_3$  contains the subgroup  $G_3$  acting transitively on this  $V_3$ , and all possible cases of

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the structure  $G_4$ , are examined. A semigeodesical system of coordinates is introduced into  $V_4$  for which

and geodesical-parallel hypersurfaces of the transitivity have the equations  $x^4 = \text{const}$ . The types of group  $G_4$  are as follows:

$G_4$ I,  $G_4$ II,  $G_4$ III,  $G_4$ IV,  $G_4$ V,  $G_4$ VI,  $G_4$ VI<sub>2</sub>,  $G_4$ VI<sub>4</sub>,  $G_4$ VII,  $G_4$ VIII.

All these types are examined, and the expressions for their metrics  $ds^2$  and operators  $X_1, X_2, X_3$  and  $X_4$  are given.  $G_4$ I,  $G_4$ II and  $G_4$ III contain a subgroup  $G_3$ II as given in Ref. 2 (Op.cit.)

with the operators:  $X_1 = p_2$ ,  $X_2 = p_3$ ,  $X_3 = -p_1 + x^3 p_2$ . Further, a case is examined when the corresponding subgroup  $G_3$  of the group  $G_4$  acts not on  $V_3$ , but on  $V_2$ . In order to make the classification complete it is necessary to take the same subgroup  $G_3$

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acting on  $V_2$ , as in the case of  $G_3$  acting on  $V_3$ . Using the algorithm it is found that there is no  $G_4$ I,  $G_4$ II,  $G_4$ III (including  $G_3$ II acting on  $V_2$ )  $G_4$ IV (with  $G_3$ III on  $V_2$ ),  $G_4$ V (with  $G_3$ V on  $V_2$ ),  $G_4$ IV (with  $G_3$ I on  $V_2$ ), and only two possibilities exist:  $G_4$ VII (with  $G_3$ VIII on  $V_2$ ) and  $G_4$ VIII (with  $G_3$ IX on  $V_2$ ). Expressions of the metrics and operators for these two types are given. The remaining case is  $G_4$  on  $V_3$  when the subgroup  $G_3$  acts on an isotropic variety  $V_2^*$ . Now, the four-dimensional groups act on the non-isotropic  $V_3$ , and, therefore, the classification introduced earlier is fully applicable to them. Consequently the following spaces are obtained:  $G_4$ I,  $G_4$ II and  $G_4$ III, whose mathematical expressions and operators are also given. The authors next discuss the gravitational fields admitting the non-transitive group of

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Classification of the ...

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motions  $G_4$  on  $V_3^*$ . In contrast to the previous cases, the classification of such  $G_4$  requires a selection of an isotropic-semigeodesical system of coordinates in  $V_4$ . The classification of  $V_4$  with the groups of motions  $G_3$  on  $V_3^*$  and  $G_4$  on  $V_3^*$  was described by G.I. Kruchkovich (Ref. 3: O dvizheniyakh v rimanovykh prostranstvakh (On Movements in Riemann Spaces) Matem. sb. t. 41, (83) : 2, 1957): This is the same as in that described above, the only difference being that here spaces with three-dimensional groups of motions are used on isotropic  $V_3^*$  and  $V_2^*(x^2, x^3)$ . The spaces admitting  $G_3$  on  $V_3^*$  do not admit non-transitive  $G_4$ . Again the mathematical expressions and operators are given for the spaces  $V_4$  in the groups not including  $G_3$ . Abstractor's note: Structures without corresponding gravitational fields are omitted. Next  $G_4$  including

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Classification of the ...

$G_3$  is examined. The mathematical expressions and operators for  $G_4 VI_3$  and  $G_4 VI_2$  are given. Finally, the authors describe the gravitational fields admitting simply transitive groups of motions as quoted by L.P. Eyzenkhart (Ref. 5: Nepreryvnyye gruppy preobrazovaniy (Continuous Groups of Transformations) M., 1957). If the space  $V_4$  admits a simply transitive group  $G_4$ , then any four operators satisfying the equations of the structure can be taken. Therefore, it is immaterial whether the fourth operator is determined by going from  $G_3$  onto  $V_3$ , or from  $G_3$  onto  $V_3^*$ . The first method is used here. For the simply transitive groups  $\xi_4 \neq 0$  and it follows from the Killing's equations that  $\partial_4 \xi_4 = 0$ . Using these conditions and operators  $G_3$  on  $V_3$  as cited in Ref. 2 (Op.cit.) which, as a subgroup is included in  $G_4$ , from the equations of the struc-

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## Classification of the ...

ture as given in Ref 1 (Op.cit.), the fourth operator is found and certain constants of integration can be made equal to zero or  $\pm 1$  by means of permissible transformations. The group  $G_4$ I and  $G_4$ II and  $G_4$ III containing  $G_3$ II are examined and their mathematical expressions derived. Group  $G_4$ IV includes the subgroup  $G_3$ III. Their metrics and operators are also given. For the group  $G_4$ V going from the subgroup  $G_3$ V, the metrics are obtained in the same way. In determining  $G_4$  including  $G_3$ , the examination is simpler since the first three operators can be taken in all possible cases:  $X_1 = p_2$ ,  $X_2 = p_3$ ,  $X_3 = -p_1$ ; for  $X_4 = \xi_4^\alpha p_\alpha$ , and therefore  $\partial_\beta \xi^4 = 0$  ( $\beta = 1, \dots, 4$ ). The mathematical expressions and operators for the following spaces are given here:  $G_4$ VI,  $G_4$ VI<sub>2</sub>,  $G_4$ VI<sub>3</sub>,  $G_4$ VI<sub>4</sub>. Finally the examination of the unsolvable  $G_4$ VII, VIII which contain un-

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solvable  $G_3$ VIII, IX respectively produces two possible spaces:  
 $G_4$ VII and  $G_4$ VIII; Their expressions are given. Thus the classification of the gravitational fields of the general form is concluded. The following paper will investigate the gravitational fields admitting the groups of motions  $G_r$  with  $r > 4$ . There are 5 Soviet-bloc references.

ASSOCIATION: Kazanskiy gosudarstvenny universitet im. V.I. Ul'yanova-Lenina (Kazan State University im. V.I. Ul'yanov-Lenin)

SUBMITTED: December 30, 1959

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PETROV, A.Z.; KAYGORODOV, V.R.; ABDULLIN, V.N.

Classification of general-type gravitational fields by groups of motions. Part 4. Izv. vys. ucheb. zav.; mat. no.1:130-142 '62.  
(MIRA 151)

1. Kazanskiy gosudarstvennyy universitet imeni V.I. Ul'yanova-Lenina.

(Gravitation)  
(Groups, Theory of)

S/020/62/146/004/005/015  
B104/B102

AUTHOR: Kaygorodov, V. R.

TITLE: Einstein space of maximum mobility

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 146, no. 4, 1962, 793 - 796

TEXT: Consideration is given to the spaces of maximum mobility for each of the three types  $T_k^+$ ,  $k = 1, 2, 3$  under which the Einstein spaces can be classified according to the algebraic structure of the tensor of curvature. The theorems and the results taken from a paper by A. Z. Petrov (Postranstva Eynsteyna - Einstein spaces, M., 1961) are summarized as follows: If  $R_{ik} = \kappa g_{ik}$ ,  $\kappa = \text{const}$ ,  $n = 4$ , and if the signature is  $(---+)$ , then the space of maximum mobility of the type  $T_1^*$  for  $\kappa = 0$  is the Minkowski space, for  $\kappa \neq 0$  it is a space of constant curvature. The group of maximum mobility of a space of type  $T_2^*$  is for  $\kappa = 0$  of sixth order and the metric is

$$1) \quad ds^2 = 2dx^1 dx^4 + ex^4 (\cosh^2(\lambda \ln x^4) dx^{11} + \cos^2(\mu \ln x^4) dx^{22}), \quad (9)$$

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$$2) \quad \lambda = \frac{\sqrt{a^4 + 4}}{2a}, \quad \mu = \frac{\sqrt{4 - a^4}}{2a}, \quad a^4 < 4, \quad s = \pm 1, \quad a = \text{const};$$

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B104/B102

Einstein space of maximum ...

$$2) \quad ds^2 = 2dx^1dx^4 + A(x^4)dx^3 + 2B(x^4)dx^3dx^3 + C(x^4)dx^3,$$

$$\begin{aligned} \partial e \quad A &= -\Delta\theta', \quad B = \Delta\psi', \quad C = -\Delta\varphi', \quad \Delta = AC - B^2, \quad \varphi' = 2b\varphi\psi - \psi^2 + \\ &+ \varphi^2 - 1, \quad \psi' = \psi(\varphi - \theta) + b(1 + \psi^2 + 0\varphi), \quad \theta' = 2b\psi\theta + \psi^2 - \theta^2 - 1, \quad b^2 = \\ &= \Delta(\psi + b\theta)^2, \quad b = \text{const}. \end{aligned}$$

(9')

for  $\kappa \neq 0$  this group is of fifth order and the metric is

$$ds^2 = -e^{2\lambda x^4}(2dx^1dx^3 + dx^3) + ee^{-\lambda x^4}dx^3 - dx^4,$$

(9'').

$$\lambda = \sqrt{\frac{\kappa}{3}}, \quad e = \pm 1.$$

A space of type  $T_3^*$  admits for  $\kappa = 0$  the non-Abelian group  $G_2$ , the metric

is

$$ds^2 = \pm(x^3dx^1 + dx^3) + 2dx^3dx^4 + ((x^3 \pm \frac{1}{4}x^1) \times \\ \times \ln(ax^2) \mp x^2 + b)dx^4, \quad (a, b = \text{const}) \quad (\text{A})$$

For  $\kappa \neq 0$  the transitive group  $G_4$  is valid and the metric is

$$ds^2 = e^{-2\lambda x^4}(\pm 2dx^1dx^3 - dx^3) \pm 2e^{\lambda x^4}dx^3dx^3 - \frac{1}{2}e^{4\lambda x^4}dx^3 - dx^4, \quad \lambda = \sqrt{\kappa/3}. \quad (11).$$

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Einstein space of maximum ...

S/020/62/146/004/005/015

B104/B102

Spaces of maximum mobility of the types  $T_2$  and  $T_3$  are possible only if  $\kappa \geq 0$ .

ASSOCIATION: Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina (Kazan' State University imeni V. I. Ul'yanov-Lenin)

PRESENTED: May 10, 1962, by V. A. Fok, Academician

SUBMITTED: May 8, 1962

Card 3/3

KAYGORODOV, V.R.

Einstein spaces of maximum mobility. Dokl. AN SSSR  
146 no.4:793-796 0 '62. (MIRA 15:11)

1. Kazanskiy gosudarstvennyy universitet im.  
V.I. Ul'yanova-Lenina. Predstavлено akademikom V.A. Fokom.  
(Hyperspace)

KAYGORODOV, V.R. (Kazan')

Classification of gravitational fields of general type by groups  
of motions. Part 5. Izv. vys. ucheb. zav.; mat. no.5:51-55 '63.  
(MIRA 16:11)

KAYGORODOV, V.R.

Classes of Eisteinian spaces with  $G_3$  groups of motions. Uch. zap.  
Kaz. un. 123 no.12:68-76 '63. (MIRA 17:11)

SEMELEVICH, N.I., dotsent; KAYGORODOVA, G.Ye., dotsent; NOZDRYUKHINA, L.P.,  
kand.med.nauk

Use of ismelin in various forms of hypertension. Terap.arkh.  
no.8:109-113 '62. (MIRA 15:12)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. M.I. Zolotova-  
Kostomarova) pediatriceskogo fakul'teta II Moskovskogo meditsin-  
skogo instituta imeni N.I. Pirogova.  
(HYPERTENSION) (GUANETHIDINE)

KAYGORODOVA, M.

Improving the equipment and the operation of cheese plants. Moloch.  
prom. 18 no.4:23-24 '57. (MLRA 10:4)

1. Novosibirskiy trest.  
(Cheese industry)

KAYGORODOVA, N.V.

Expediency of using porolon in the resection of the liver.  
Eksper. khir. i anest. 8 no.3:62-63 My-Je'63 (MIRA 17:1)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof.  
M.P. Vilyanskiy) Omskogo meditsinskogo instituta i Omskoy  
Oblastnoy klinicheskoy bol'nitsy (glavnyy vrach K.I.Shekurdina).

VILYANSKIY, M.P.; KAYGORODOVA, N.V.

Recurrent embolism of the popliteal artery. Vest. khir. 70  
no.6:120-121 Je'63 (MIRA 16:12)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - doktor med. nauk M.P.Vilyanskiy) Omskogo meditsinskogo instituta imeni M.I.Kalinina na baze oblastnoy klinicheskoy bol'nitsy (glavnnyy vrach - zasluzhennyy vrach RSFSR K.I.Shakhurdina). Adres Vilyanskogo: Omsk, ul. Lenina, d.9, Omskiy meditsinskiy institut.

KAYGORODOVA, N.V.

KAYGORODOVA, N.V.; PANTUSOV, A.S., dotsent; STENA, A.N., zasluzhennyj vrach  
RSFSR.

Traumatism in children under rural conditions. Ortop.travm. i  
protez. 18 no.4:45-48 J1-Ag '57. (MIRA 11:1)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. kafedroy - prof.  
A.N.Manuylov) Omskogo meditsinskogo instituta im. M.I.Kalinina na  
baze Omskoy oblastnoy bol'nitsy (glavvrach - K.I.Shekurdina) i  
Krutinskoy rayonnoy bol'nitsy (glavvrach - A.N.Stena)

(WOUNDS AND INJURIES, in inf. and child.

statist. in rural cond.)

(RURAL CONDITIONS

statist. of traumatism in child.)

KAYGORODOVA, N.V. (Omsk, Oktyabr'skaya ul. d. 85-a)

Parietal strangulation of an inguinal hernia in a month-old child.  
Vest.khir. 81 no.12:91-92. D '58. (MIRA 12:2)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. A.I. Manuylov) Omskogo meditsinskogo instituta imeni M.I. Kalinina i oblastnoy klinicheskoy bol'nitsy (glavnnyy vrach - K.I. Shekhurdina).

(HERNIA)

KAYGORODOVA, N.V.

Diagnostic difficulties in rare localizations of Echinococcus.  
(MIRA 16:2)  
Sov.med. 26 no.12:22-25 D '62.

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - doktor med.  
nauk M.P. Vilyanskiy) Omskogo meditsinskogo instituta na baze  
oblastnoy klinicheskoy bol'nitsy (glavnnyy vrach - zasluzhennyy  
vrach RSFSR K.N. Shekhurdina).  
(HYDATIDS)

KAYGORODOVA, R.Ye.; BEREZOVSKAYA, Ye.K. (Moskva V-334, Vorob'yevskoye  
shosse, d.2, kv.1)

Endothelioma of the thoracic aorta. Grudn. khir. 5 no.4:88-90  
Jl-Ag'63 (MIRA 17:1)

KAYGORODOVA, R. Ye.

Dissertation: "Significance of a Gastroscopic Examination in Ulcerous Disease."  
Cand Med Sci, First Moscow Order of Lenin Medical Inst, 26 Apr 54. (Vechernyaya  
Moskva--Moscow, 15 Apr 54)

SO: SUM 243, 19 Oct 1954

ZOLOTOVA-KOSTOMAROVA, M.I., professor; KAYGORODOVA, R.Ye., kandidat  
meditsinskikh nauk

Clinical aspects of thromboembolism. Terap.arkh.27 no.5:30-36  
'55. (MLA 8:12)

1. Iz kafedry fakul'tetskoy terapii (zav.prov. M.I.Zolotova-  
Kostomarova) pediatriceskogo fakul'teta II Moskovskogo  
meditsinskogo instituta imeni I.V.Stalina.

(THROMBOEMBOLISM,  
clin.aspects)

KAYGORODOVA, R.Ye., kandidat meditsinskikh nauk (Moskva)

Gastroscopic diagnosis of prolapse of the gastric mucosa. Klin.med.  
51-53 Ap '57. (NIR 10:7)

1. Iz fakul'teteskoy terapevticheskoy kliniki pediatricheskogo fakul'-  
teta (dir. - prof. M.I.Zolotova-Kostomarova) II Moskovskogo  
meditsinskogo instituta imeni I.V.Stalina.

(STOMACH, dis.

prolapse of mucosa, diag., gastroscopy)

(GASTROSCOPY, in various dis.

prolapse of gastric mucosa, diag. value)

(MUCOUS MEMBRANES

prolapse of gastric mucosa, diag., gastroscopy)

KAYGORODOVA, R. Ye.; KOGAN, R. P. (Moskva D-100, 4-ya Zvenigorodskaya  
ul., d. 8, kv. 30)

Benign tumor of the heart. Grud. khir. 4 no. 3:85-87 My-Je '62.  
(MIRA 15:7)

1. Iz kafedry fakul'tetskoy terapii pediatricheskogo fakul'teta  
II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni  
N. I. Pirogova (zav. - prof. M. I. Zologova-Kostomarova) i l-y  
Gorodskoy klinicheskoy bol'nitsy imeni N. I. Pirogova (glavnyy  
vrach - zasluzhennyj vrach RSFSR L. D. Chernyshev, nauchnyj  
rukovoditel' Ya. L. Rapoport)

(HEART—TUMORS)

TURSUNOV, G. (R18AZA - Tashkent); POPOV, V. (Ashkhabad); ZAIKROVA, S.  
(Ryazan'); KAYGORODOVA, Yu. (RA9CKS - Sverdlovsk)

Youth is on the air. Radio no.1:24-25 Ja '60.  
(MIRA 13:5)  
(Radio clubs) (Amateur radio stations)

VOLKOV, Yu.V.; VOLKOVA, Z.A.; KAYGORODTSEV, L.M.; BRASLAVSKIY,  
V.M., kand. tekhn. nauk, retsenzent; KUMANIN, V.I.,  
inzh., red.

[Durability of machines operating in an abrasive medium]  
Dolgoechnost' mashin, rabotaiushchikh v abrazivnoi sre-  
de. Moskva, Izd-vo "Mashinostroenie," 1964. 114 p.  
(MIRA 17:6)

KAYGORODTSEV, S.

Without accounting journals. Den. 1 kind. 17 no. 6:89-90 Je '59.  
(MIRA 12:10)  
(Rostov Province--Banks and banking--Accounting)

GRDINA, Yu.V.; TARASKO, D.I.; KAYGORODTSEV, V.S.

Heat treatment of railroad car axles. Izv.vys.ucheb.zav.; chern.  
met, no.4:97-106 '61. (MIRA 14:4)

l. Sibirskiy metallurgicheskiy institut.  
(Car axles) (Steel--Heat treatment)

GRDINA, Yu.V.; TARASKO, D.I.; KAYGORODTSEV, V.S.

Effect of heat treatment and the chemical composition of steel on  
the fatigue strength of railroad axles. Izv. vys. ucheb. zav.;  
chern. met. 4 no.12:144-148 '61. (MIRA 15:1)

1. Sibirskiy metallurgicheskiy institut.  
(Steel--Heat treatment) (Car axles--Testing)

KAYGORODTSEVA, R.A.

V 3881. SOLUTION OF IRKUTSK BASIN COALS IN ORGANIC SOLVENTS.  
Tuturina, V.V. and Kaigerodtseva, R.A. (Izv. fiz.-khim. nauch.-issled. Inst. Irkutsk. Univ. (Bull. phys. chem. sci. res. Inst. Irkutsk Univ.), 1953, vol. 3, (1/2), 42-68; abstr. in Ref. Zn. Khim. (Ref. J. Chem.), 1955, (20), 47055).  
The solvents were alcohol and benzene, phenol, and pyridine. After removal of soluble matter, the coals lost their coking capacity. Solubility was reduced when coals were heated to 250°C, remained constant when they were heated from 250 to 400, and increased considerably above 400°C. Coals oxidized with nitric acid had increased solubility, increased volatile content and reduced cokeability. A direct relationship was established between solubility and cokability.

BAGRYANTSEVA, P. P., BADAYEVA, M. K. and KAYGORODYSEVA, R. A.

"The Protection of Hydraulic Gas Containers from Corrosion." p. 189.

in book Study and Use of Petroleum Products, Moscow, Gostekhnizdat, 1957. 213 pp.

This collection of articles gives the results of the sci. res. work of the AU  
Sci. Res. Inst. for the Processing of Petroleum and Gas for the Production of Synthetic  
Liquid Fuel.

KAYGORODTSEVA, R.A.

BAGRYANTSEVA, P.P.; BADAYEVA, M.K.; KAYGORODTSEVA, R.A.

Corrosion protection of water gasholders. Trudy VNII MP no.6:189-198  
'57. (MIRA 10:10)

(Gasholders) (Corrosion and anticorrosives)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220011-5

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721220011-5"

KAYKARIS, P.A., Cand Chem Sci—(diss) "Development of methods of synthesis of alkanes with one <sup>and</sup> two quaternary atoms of carbon." Mos, 1958. 14 pp (Mos State U im N.V. Lomonosov. Chemical Faculty), 750 copies (KL,30-58,123)

- 24 -

LEVINA, R.Ya.; KAYKARIS, P.A.; SIMOLIN, A.V.; TRESHCHOVA, Ye.G.

Synthesis of hydrocarbons. Part 66: C<sub>11</sub> - C<sub>16</sub> hydrocarbons with  
two adjacent quaternary carbon atoms. Zhur. ob. khim. 28 no.9:2309-  
2314 S '58. (MIRA 11:11)

1. Moskovskiy gosudarstvennyy universitet.  
(Hydrocarbons)

AUTHORS: Levina, R. Ya., Kaykaris, P. A.,  
Gembitskiy, P. A. SOV/79-28-10-4/60

TITLE: Synthesis of Hydrocarbons (Sintez uglevodorodov) LXVII.  
Hydrocarbons C<sub>12</sub>, With One or Two Quaternary Carbon Atoms  
(LXVII. Uglevodorody C<sub>12</sub> s odnim i dvumya chetvertichnymi  
atomami ugleroda)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 10,  
pp 2825 - 2828 (USSR)

ABSTRACT: In the paper under discussion, the primary hydrobromide  
of isoprene (I) is applied to the synthesis of  
ethylene- and paraffin hydrocarbons of the compositions  
C<sub>12</sub>H<sub>24</sub> and C<sub>12</sub>H<sub>26</sub>. In the reaction of the hydrobromide  
of isoprene with 2-magnesiumchloro-2-methylhexane, an  
alkene with a quaternary carbon atom, 2,5,5-trimethyl-  
nonane-2 (III), was obtained. Its hydration yielded  
2,5,5-trimethylnonane (IV). From the reaction of the iso-  
prene hydrobromide with 3-magnesiumchloro-2,2,3-tri-  
methylbutane, an ethyl hydrocarbon C<sub>12</sub>H<sub>24</sub> (V) with two

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Synthesis of Hydrocarbons. LXVII. Hydrocarbons C<sub>12</sub>, SOV/79-28-10-4/60  
With One or Two Quaternary Carbon Atoms

adjacent quaternary carbon atoms was obtained. Its hydration furnished the compound (VI). Isomeric alkenes and alkanes of this kind had so far remained unknown. The yields of the two isomeric alkenes (III and V) amounted to 8 and 7% only, a fact which can be explained by side processes (Ref 3). The attempt to achieve the synthesis of the C<sub>14</sub>H<sub>28</sub> hydrocarbons with three adjacent quaternary carbon atoms (VIII) was unavailing, as this branched structure involves difficulties of spatial arrangement. There are 11 references, 9 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: August 19, 1957  
Card 2/2

5(3)

SOV/79-29-4-3/77

## AUTHORS:

Levina, R. Ya., Daukshas, V. K., Kaykaris, P. A.

## TITLE:

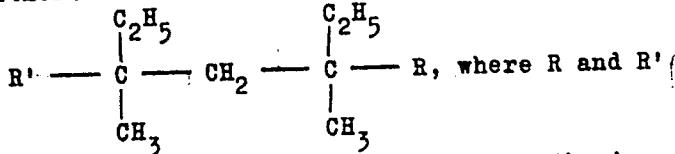
Synthesis of Hydrocarbons (Sintez uglevodorodov). 68. Ditertiary  
Alkyl Methanes  $C_{13}$  -  $C_{15}$  From 3,5-Dimethyl Heptadiene-2,4  
(68. Ditetrichnoalkilmetyany  $C_{13}$  -  $C_{15}$  iz 3,5-dimetilheptadiyena-  
2,4)

## PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1056-1061 (USSR)

## ABSTRACT:

In previous papers (Refs 1,2) the authors described a new synthesis of ditertiary alkyl methanes  $R'(CH_3)_2C-CH_2-C(CH_3)_2R$  and used as initial product a tertiary chloride of the allyl type. In the present paper a new general synthesis of the difficultly accessible and hitherto not described ditertiary alkyl methanes of the structure



are equal or different radicals, was devised. The synthesis consists of the following steps: a) Condensation of the methyl-

Card 1/3

SOV/79-29-4-3/77

Synthesis of Hydrocarbons. 68. Ditertiary Alkyl Methanes C<sub>13</sub> - C<sub>15</sub> From  
3,5-Dimethyl Heptadiene-2,4

ethyl ketone into the 3-methyl hepten-3-one-5; b) synthesis of the 3,5-dimethyl heptadiene-2,4 (IIa) (with a possible impurity of the isomeric diene of the same carbon skeleton). (IIb) by reaction of methyl heptenone with methyl magnesium bromide; c) hydrochlorination of dimethyl heptadiene; d) reaction of the resulting 3-chloro-3,5-dimethyl heptene-4 (III) with alkyl magnesium bromides; e) hydrochlorination of the alkenes (reaction products), i.e. the synthesis of tertiary saturated chlorides [(3-chloro-3,5-dimethyl-5-ethyl alkanes (V)] with a quaternary carbon, and f) reaction of these chlorides with organo-magnesium compounds in the presence of HgCl<sub>2</sub> (VI) (see the two reaction schemes). The following compounds were thus newly synthesized: 3,5-dimethyl-3,5-diethyl heptane; 4,6-diethyl-4,6-diethyl nonane; 2,3,5-trimethyl-3,5-diethyl octane and 2,3,5,6-tetramethyl-3,5-diethyl heptane. There are 3 tables and 14 references, 9 of which are Soviet.

Card 2/3

SOV/79-29-4-3/77

Synthesis of Hydrocarbons. 68. Ditertiary Alkyl Methanes C<sub>13</sub> - C<sub>15</sub> From  
3,5-Dimethyl Heptadiene-2,4

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: February 19, 1958

Card 3/3

5 (3)  
AUTHORS:

Levina, R. Ya., Kaykaris, P. A.,  
Baukh, I., Treshchonova, Ye. G.

SOV/79-29-7-28/83

TITLE:

Synthesis of Hydrocarbons (Sintez uglevodorodov). LXIX. A New  
General Method of the Synthesis of Dineoalkyls ( $C_{10}H_{22}$  -  $C_{12}H_{26}$ ),  
Dineopentyl and Its Homologs (LXIX. Novyy obshchiy put' sinteza  
dineoalkilov ( $C_{10}H_{22}$ - $C_{12}H_{26}$ )-dineopentila i yego gomologov)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2236 - 2240  
(USSR)

ABSTRACT:

One of the ethylene hydrocarbons with a quaternary carbon  
(Refs 1,2), 2,2,5-trimethyl hexene-4 (II) synthesized by the  
authors already earlier, was obtained by the reaction of pri-  
mary isoprene hydrobromide with tertiary butyl magnesium  
chloride (according to Grignard-Wuertz). This compound (II)  
was used for the synthesis of the difficultly accessible  
paraffins which have two quaternary carbons separated by two  
 $CH_2$  groups, i.e. of dineopentyl and its homologs (of the di-  
neoalkyls). Compound (II) was transformed by hydrogen chloride  
into the saturated tertiary chloride (III), which was caused

Card 1/3

Synthesis of Hydrocarbons. LXIX. A New General Method SOV/79-29-7-28/83  
of the Synthesis of Dineoalkyls ( $C_{10}H_{22}$  ~  $C_{12}H_{26}$ ),

Dineopentyl and Its Homologs

to react with alkyl magnesium bromides in the presence of  $HgCl_2$  (Grignard-Wuertz reaction) and led to compound (IV) (Scheme 1). In the reaction of tertiary chloride (III) with alkyl magnesium bromides also side-reactions took place: the separation of HCl from the tertiary chloride (re-formation of the initial-2,2,5-trimethyl hexene-4(50%)), which was then reduced into the 2,2,5-trimethyl hexane (Scheme 2). This mixture of dineoalkyl and the lower boiling trimethyl hexene and trimethyl hexane which is obtained in any case was separated by fractional distillation. The dineoalkyls purified by a further distillation and by methods of chromatography on silica gel resulted in yields of 10-16%, computed for the tertiary chloride (III) used for the reaction. The Raman spectra confirm the presence of quaternary carbon atoms in them. By the method of the "Grignard-Wuertz reaction carried out two times" the authors synthesized the difficultly accessible dineopentyl (2,2,5,5-tetramethyl hexane) and its homologs

Card 2/3

Synthesis of Hydrocarbons. LXIX. A New General Method SOV/79-29-7-28/83  
of the Synthesis of Dineoalkyls ( $C_{10}H_{22}$  -  $C_{12}H_{26}$ ),  
Dineopentyl and Its Homologs

$C_{11}H_{24}$  and  $C_{12}H_{26}$ , 2,2,5,5-tetramethyl heptane, 2,2,5,5-tetra-  
methyl octane, and 2,2,5,5,6-pentamethyl heptane which have  
hitherto not been described. There are 1 table and 12 refer-  
ences, 3 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: June 27, 1958

Card 3/3

5(3)

## AUTHORS:

Levina, R. Ya., Baukh, I.,  
Kaykaris, P. A., Treshchova, Ye. G.

SOV/79-29-9-29/76

## TITLE:

Synthesis of Hydrocarbons.

LXXI. Synthesis of the Dineoalkyls  $C_{12}H_{26}$ -  $C_{14}H_{30}$ 

## PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2945-2950  
(USSR)

## ABSTRACT:

The present paper deals with the synthesis of the dineoalkyls  $C_{12}$ -  $C_{14}$  with a different position of the quaternary hydrocarbons in the chain, i.e. 3,3,6,6-tetramethyl alkanes and 4,4,7,7-tetramethyl decane (dineoheptyl) according to the method of synthesizing dineoalkyls recently developed by the authors (Ref 1) (by double Grignard-Wuertz reaction). The compounds (II) (10% yield), i.e. 2,5,5-trimethyl heptene-2 and 2,5,5-trimethyl octene-2 (Scheme 2) were obtained by the reaction of the primary hydrobromide of isoprene (I) with tertiary amyl- and, accordingly, tertiary hexyl magnesium chloride. The Raman spectra of the synthesized alkenes were characteristic of trisubstituted ethylenes. The 2,2,5-trimethyl heptene-2 was also obtained by partial catalytic hydrogenation of 2,5,5-trimethyl heptadiene-2,6. This diene hydrocarbon

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## Synthesis of Hydrocarbons.

SOV/79-29-9-29/76

LXXI. Synthesis of the Dineoalkyls  $C_{12}H_{26}$ -  $C_{14}H_{30}$ 

contains the groups of the monosubstituted (-CH=CH<sub>2</sub>) and trisubstituted (>C-CH-) ethylene, which according to S. V. Lebedev (Ref 2) ought to be hydrogenated at a different rate. The hydrogenation of this heptadiene in fact occurs according to scheme 3 at constant rate until two hydrogen atoms are added per 1 mol diene. Constants and Raman spectra of the alkene obtained corresponded to the constants and the Raman spectra of 2,5,5-trimethyl heptene-2 which was synthesized according to Grignard-Wuertz. By HCl the 2,5,5-trimethyl alkenes-2 (II) were then transformed into the saturated chlorides (III) (93 and 75% yield), which in turn were transformed into dineoalkyls (IV) (Scheme 4) by reaction with organomagnesium compounds in the presence of HgCl<sub>2</sub>. These dineoalkyls were separated from the initial alkenes (50-55%) by fractional distillation. The yields of dineoalkyl purified by further distillation and chromatography on silica gel amounted to 10-32%, calculated for the tertiary chlorides (III) introduced into the Grignard-Wuertz reaction. Thus,

Card 2/3

Synthesis of Hydrocarbons.

LXXI. Synthesis of the Dinealkyls  $C_{12}H_{26}$  -  $C_{14}H_{30}$

SOV/79-29-9-29/76

3,3,6,6-tetramethyl octane and the hitherto unknown  
3,3,6,6-trimethyl nonane, 2,3,3,6,6-pentamethyl octane,  
and 4,4,7,7-tetramethyl decane were synthesized. There  
are 2 tables and 9 references, 4 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State  
University)

SUBMITTED: July 17, 1958

Card 3/3

KUGATOVA-SHENYAKINA, G.P.; LAUMYANSKAS, G.A.; KRASIL'NIKOVA, G.K.;  
MOZOLIS, V.V.; KAYKARIS, P.A.; POSHKENE, R.A.

Ethynylation of ionone analogs. Zhur.ob.khim. 32 no.8:2455-2461  
Ag '62. (MIRA 15:9)  
(Ionone) (Ethynylation)

KUGATOVA-SHEMYAKINA, G.P.; LAUMYANSKAS, G.A.; KRASIL'NIKOVA, G.K.; MOZOLIS, V.V.;  
KAYKARIS, P.A.

Synthesis of some unsaturated compounds of the cycloaliphatic series.  
Zhur.ob.khim. 34 no.1:122-126 Ja '64. (MIRA 17:3)

KAYKARIS, P./. [Baikaris, P.]

Aminosulfonic acids and amides of the  $\Delta^3$ -cyclohexenyl series.  
Trudy AN Lit. SSR, Ser. B no.2:13-420 '63. (MIRA 57:10)

I. Institut khimi i khimicheskoy tekhnologii AN Litovskoy SSR.

MOTSKUTE, D.V. [Mockute, D.] KARVIA, R.L. [Radzevicius, R.]

Synthesis and properties of some derivatives of cis- and  
trans-2-methylcyclohexen-3-als. Trudy AN Lit. SSR. Ser. B  
no.3:95-100 '64. (MIRA 18:5)

1. Institut khimii i khimicheskoy tekhnologii AN Litovskoy SSR.

KAYKARIS, P.A. [Kaikaris, P.]

Study of the properties of  $\Delta^3$ -cyclohexenals. Part 1: Oximes of  
 $\Delta^3$ -cyclohexenals. Trudy AN Lit.SSR. Ser. B no.3:89-94 '65.

(MIRA 19:1)

1. Institut khimii i khimicheskoy tekhnologii AN Litovskoy SSR.

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4.215225 + 0.8776 - 0.5110 - 0.4777 - 0.2151

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**A** *Antagonizing advantage*: *Exhibit 3* illustrates how the

Card 1

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to prevent passivation of the anode; the test procedure is as follows:

MEASURES FOR THE PREVENTION OF PASSIVATION IN CONJUNCTION WITH

DMV:

VORONKO, A.A.; KAYKARIS, V.A.

Effect of thiourea on leveling in nickel plating. Zhur.prikl.  
khim. 34 no.11:2582-2585 N '61. (MIRA 15:1)

1. Kafedra fizicheskoy khimii Vil'nyusskogo gosudarstvennogo  
universiteta imeni V.Kapsukasa.  
(Nickel plating)

"APPROVED FOR RELEASE: 06/13/2000

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CIA-RDP86-00513R000721220011-5"

KAYKIEV, A.

KAYKIEV, ABDZHAPAR,

"The Characteristic Stages of the More Important Spring and Winter Wheats of Kirgiz." Cand Biol Sci, Kirgiz Agricultural Inst, Frunze, 1953. (RZhBiol, No 6, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

DRUZHININ, I.G.; KAYKIYEV, A.

Reaction of iron sulfate with urea in an aqueous medium at 25 and  
40°C. Izv.AN Kir.SSR.Ser.est.i tekhn.nauk 4 no.9:101-106 '62.  
(MIRA 16:4)

(Iron sulfates) (Urea)

DRUZHININ, I.G.; KAYKIYEV, A.

Composition and property diagrams of aqueous equilibrium solutions  
from urea with nickel and iron sulfates at 25° and 40° C.  
Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 2 no.11:13-20 '60.

(MIRA 14:10)

(Nickel sulfate) (Iron sulfate) (Urea)

DRUZHININ, I.G.; KAYKIYEV, A.

Ternary system urea - nickel sulfate - water at 25 and 40° C.  
Izv.vys.ucheb.zav.; khim.i khim.tekh. 5 no.1:3-6 '62.

(MIRA 15:4)

1. Kirgizskiy gosudarstvennyy universitet, kafedra khimii.  
(Urea) (Nickel sulfate) (Systems (Chemistry))

KAYKOV, B.M.

The EER-2 electronic optimalizing controller. Avtom.i prib.  
no.4:17-21 O-D '62. (MIRA 16:1)  
(Electronic control)

GONCHAROV, Fedor Nikolayevich; KAYKOV, Lazar' Semenovich; TIKHOMIROV,  
V.V., red.; MYAKUSHKO, V.P., red. izd-va; BACHURINA, A.M.,  
tekhn. red.

[Work experience of the Bobruysk Khalturin Furniture Factory]  
Opyt raboty Bobruiskoi mebel'noi fabriki im. Khalturina. Mo-  
skva, Goslesbumizdat, 1962. 48 p. (MIRA 16:7)  
(Bobruysk--Furniture industry)

KAYKOV, N.M.

Ultraviolet radiation in Murmansk and its hygienic characteristics. Gig. i san. 24 no.3:76-78 Mr '59. (MIHA 12:5)  
(ULTRAVIOLET RAYS,

natural ultraviolet rays in Murmansk (Rus))  
(GEOGRAPHY,

natural ultraviolet rays in Polar region (Rus))

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721220011-5

KAYKOV, N.M.

Modified method for the determination of proteins in ready-to-eat  
food. Gig.i san. 26 no.3:57-60 Mr '61. (MIRA 14:7)  
(PROTEINS) (FOOD--ANALYSIS)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721220011-5"

KAYKOV, N.M. (Murmansk)

Fluorine in the natural water of Murmansk Province and its hygienic evaluation. Gig. i san. 26 no.4:94 Ap '61. (MIRA 15:5)  
(FLUORINE) (MURMANSK PROVINCE--WATER--COMPOSITION)

KAYKOV, S.L.

Driving piles during the electrification of swampy railroad sections.  
Transp.stroi. 10 no.5:51 My '60. (MIRA 13:7)

1. Starshiy inzhener Novosibirskoy nauchno-issledovatel'skoy  
stantsii Orgtransstroya.  
(Railroads—Electrification)  
(Electric lines—Poles)

KAYKOV, S.L., starshiy inzh.

Filling the holes of contact-system poles. Transp. stroi. 10 no.10:  
55 0 '60. (MIRA 13:10)

1. Novosibirskaya nauchno-issledovatel'skaya stantsiya Orgtransstroya.  
(Electric lines--Poles)

KAYKOVA, T. M. Cand. Geolog-Mineral Sci.

Dissertation: "Structures of the Basic Gold-Ore Fields of Khakassia and Mineral Association of Main Ores." Moscow Inst of Nonferrous Metals and Gold, imeni M. I. Kalinin, 23 Jun 47.

SO: Vechernaya Moskva, Jun 1947 (Project #17836)

TOPIC TAGS: uranium, arsenic, structural geology, pitchblende, mineralogy

ABSTRACT: A brief description is given of geological structure of hydrothermal

minerals in the central part of the area.

has: 4 tables, 2 figures.

ASSOCIATION: none  
SUBMITTER: 2048 v 4

ENCL: 00  
VOLUME: 1

SUB CODE: ES, IC

Card 1/1

KAYLIN, M. M., BAGRYANTSEVA, P. F. and OSMER, R. N.

"The Oxidation of Petroleum as a Raw Material for the Production of Greases",  
p 198, in the monograph "Investigation and Use of Petroleum Products", edited by  
N. G. Puchkov, Gostoptkhizdat, Moscow-Leningrad, 1950.

KAYLO, A.S.

Afforestation

Afforestation of Tias'min region sands. Les.khoz. 5 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952, Unclassified

SOV/133-58-11-2/25

AUTHORS: Levin, L.Ya., Kuz'min, I.A., Kaylov, V.D. and Shur, A.B.  
TITLE: An Experience in the Operation of a Blast Furnace with a  
High Top Pressure of 1.5 atm (Opyt raboty domennykh pechey  
s davleniyem na koloshnike 1.5 atm)

PERIODICAL: Stal', 1958, Nr 11, 964 - 968 (USSR)

ABSTRACT: The operation of Nrs 1 and 2 furnaces in the Cherepovets  
Works under high top pressure varying up to 1.5 atm is  
described. Furnaces operated on a 100% sinter burden of  
a basicity  $\text{CaO}/\text{SiO}_2 = 1.13 - 1.15$  producing foundry and  
basic iron. Main operational indices are assembled in  
Table 1 and mean monthly results for both furnaces in  
Table 2. It is concluded that with increasing top pressure  
by each 0.1 atm (within a range of 1.0 - 1.5 atm), the  
output of furnaces increases on average by 1.9%. This  
increase in the output is due not only to increasing driving  
rate but also due to a decrease in the coke rate. The  
main factor which permitted decreasing the coke rate was

Card 1/2

SOV/133-58-11-2/25

An Experience in the Operation of a Blast Furnace with a High Top Pressure of 1.5 atm

an increase in the blast temperature to 950 - 1 000 °C.  
The latter was possible due to an increase in the top pressure. There are 1 figure, 2 tables and 2 Soviet references.

ASSOCIATION: Cherepovetskiy metallurgicheskiy zavod  
(Cherepovets Metallurgical Works)

Card 2/2

LEVIN, L.Ya.; VANCHIKOV, V.A.; KAYLOV, V.D.; SHUR, A.B.; BYALYY, L.A.;  
RUSAKOV, P.G.

Experimental blast furnace smelting with an oxygen-enriched  
blast. Stal' 25 no.8:676-678 Ag '65. (MIRA 18:8)

l. Cherepovetskiy metallurgicheskiy zavod i Leningradskiy  
politekhnicheskiy institut.

TREKALO, S.K.; YAKURTSINGER, N.M.; ANDRONOV, V.N.; GRIGOR'YEVYKH, G.F.;  
KAYLOV, V.D.; SHUR, A.B.; v rabote priminali uchastiye:  
NEVMERZHITSKIY, Ye.V.; SHOLENNINOV, V.M.; VITOVSKIY, V.M.;  
GRINBERG, D.L.; GUTMAN, E.Ye.; YEGOROV, N.D.

Open-hearth furnace operations with classified sinter. Stal'  
(MIRA 13:12)  
20 no. 12:1063-1070 D '60.

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy  
metallurgii i Cherepovetskiy metallurgicheskiy zavod.  
(Blast furnaces) (Sintering)

LEVIN, L.Ya.; SOLOV'YEV, Ye.T.; KAYLOW, V.D.

Achievement of high indices in blast furnace smelting.  
Stal' 22 no.7:587-592 Jl '62. (MIRA 15:7)  
(Blast furnaces)

LEVIN, L.Ya.; VANCHIKOV, V.A.; SHUR, A.B.; KAYLOV, V.D.; BYALYY, L.A.;  
Prinimali uchastiye: RUSAKOV, P.G.; ANTONOV, V.M.; KOSTROV, V.A.;  
KOTOV, A.P.; YEGOROV, N.D.; BUGAYEV, K.M.; SOLODKOV, V.I.;  
YASHCHENKO, B.F.; KOREGIN, A.V.; SAPOZHNIKOV, N.P.; TSUKANOV, V.N.;  
VITOVSkiy, V.M.

Mastering the operation of high-capacity blast furnaces. Stal'  
23 no.9:773-778 S '63. (MIRA 16:10)

KAYMACHNIKOV, M.

Werk with active members of the primary trade-union organization.  
Sev.profsoiuzy 4 no.3:48-58 Mr '56. (MIRA 9:7)

1.Predsedatel' komiteta prefseyusa Minskey obuvnye fabrili imeni  
L.M.Kaganovicha.  
(Social group work)

KAYMACHNIKOV, M.P.

Outstanding worker. Tekst.prom. 20 no.5:92-93  
My '60. (MIRA 13:8)  
(Minsk--Woollen and worsted manufacture)

KAYMAKAN, I. D.

USSR/Cultivated Plants. Fruits. Berries.

M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20492.

Author : I.B. Kaymakan

Inst : Not given.

Title : The Quince in the Dniester River Region. (Ayva v Pridnestrov'ye).

Orig Pub: Sadovodstvo, vinogradarstvo i vinodeliye Moldavii,  
1956, No 6, 21-23.

**Abstract:** More than 150 hectares of quince were planted in  
the past few years in the floodlands of the Dnieper.  
The development of quince trees is described for the  
various conditions and soils. The portion of the  
quince above ground and the root systems develop best  
on heavy loams and loamy soils.

Card : 1/1

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CIA-RDP86-00513R000721220011-5"

USSR/Cultivated Plants - Fruits, Berries.

H-8

Abs Jour : Ref Zhur - Biol., № 9, 1956, 39500

Author : Kayzhan, I.V.

Inst : Kishinev Agricultural Institute.

Title : Quince as a Rootstock for Pear Tree.

Orig Pub : Sadovodstvo, vinozadarstvo i vinodeliye Moldavii, 1957,  
No 3, 52-55.

Abstract : The cultivation of 15 pear tree varieties, grafted on quince and forest pear, was studied at the Kishinev Agricultural Institute in 1952-1956. Two years old pear trees grafted on forest pear grew considerably better than those grafted on quince. Some pear varieties grew poorly together with quince. Dropping off of scallings, grafted on quince reached up to 30-60% in the case of some varieties.

Card 1/2

- 150 -

KAYMAKAN, I. V.: Master Agric Sci (diss) -- "The quince in the Dnestr region  
of Moldavia". Kishinev, 1958. 22 pp (Min Agric USSR, Kishinev Agric Inst  
im M. V. Frunze), 150 copies (KL, No 6, 1959, 138)

KAYMAKAN, Il'ya Vasil'yevich; FITOVA, L., red.; KURMAYEVA, T.,  
tekhn.red.

[Regeneration of old unsystematically established orchards  
in Moldavia] Rekonstruktsiia starykh bessistemnykh sadov  
Moldavii. Kishinev, Gos.izd-vo "Kartia moldoveniaske," 1961.  
37 p. (MIRA 14:6)  
(Moldavia--Fruit culture)

KAYMAKAN, M.

Martynia proboscidea Glor in the fields of Donets Province.  
Ukr.bot.zhur. 19 no.5:102 '62. (MIRA 16:1)

1. Luganskiy sel'skokhozyaystvennyy institut, kafedra botaniki.  
(Starobeshevo District—Martyniaceae)

USSR/Meadow Cultivation.

L

Abs Jour : Ref Zhur Biol., No 14, 1958, 63269  
Author : Kaymakan, M.A., Konakov, M.K., Mashkevich, N.G.,  
Skorokhod, V.G.  
Inst : Voroshilovgrad Agricultural Institute.  
Title : Meadows of Kolkhoz imeni Budenny of Novo-Aydarskiy  
Rayon and Ways to Improve Them.  
Orig Pub : Nauchn. zap. Voroshilovgradsk. s.-kh. in-ta, 1956, 4,  
No 1, 88-97  
Abstract : No abstract.

Card 1/1

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29828  
Author : Kaymakan, M.A.  
Inst : Voroshilovgrad Agricultural Institute.  
Title : Grass Mixtures for Depressed Moistened Plots in Voroshilo-  
vgradskaya Oblast'.  
Orig Pub : Nauchn. zap. Voroshilovgradsk. s.-kh. in-ta, 1956, 4, No 1,  
109-115.  
Abstract : Voroshilovgrad Agricultural Institute conducted an experi-  
ment in grass mixtures in 1950-1952 for the lowland and  
irrigated plots of the oblast. Study was made of grass  
mixtures of smooth brome, couch grass and sainfoin in  
equal percentages of leguminous and grain plants as well  
as the grass mixture of couch grass, smooth brome, alfalfa  
and Transcaucasian sainfoin in the ratio of 70% legumes

Card 1/2

COUNTRY	:	USSR
CATEGORY	:	Cultivated Plants. Cereals.
ABS. JOUR.	:	RZhBiol., №.14, 1958, №. 63350
AUTHOR	:	Kaymakan, M. A., Skorokhod, V. G.
INST.	:	Voroshilovgrad Agricultural Institute
TITLE	:	Morphogenesis in Corn in Relation to Variety and Conditions of Environment.
CRIG. FUB.	:	Nauchn. zap. Voroshilovgradsk. s.-kh. in-ta, 1957, 4, №.2, 69-75
ABSTRACT	:	In 1955, a study of morphogenesis of 4 varieties of corn (Pervenets gibrildnyy, VIR 42, Khar'kovskaya 23 and Dnepropetrovskaya) was conducted on irrigated and non-irrigated plots. The first irrigation was carried out during the period of the formation of primordia and differentiation of the rudiments of female generative organs. Test specimens for morphological analyses were taken upon the appearance of each new leaf. Formation of axillary buds takes place earliest at the stage of 4 leaves in the variety VIR 42, and latest - at the stage of 6 leaves in Dnepropetrovskaya

Card: 1/2

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SHADRIKOV, I., brigadir molochnotovarnoy fermы; BANNOVA, T. pomoshchnik brigadira, chlen rabochego komiteta; TUMANDEYeva, L., profgruporg; KAYMAKINA, Ye., doyarka; ANTIPOVA, Yu., doyarka; PECENOKOVA, M., podsmennaya doyarka; ARKHANDEYEV, B., skotnik; NURMUKHAMEDTOVA, R., telyatnitsa.

Disseminate the progressive practice among all state farm workers.  
Sov. profsoiuzy 17 no. 5:12-14 Mr '61. (MIRA 14:2)

1. Sovkhoz "Kanash," Kuybyshevskoy oblasti.  
(Kuybyshev Province—Dairying) (Socialist competition)

KAYMAKOV, A.A., inzh.; TRUNOV, V.B., inzh.

Analysis of breakdowns of electrical equipment in Kuznetsk Basin mines. Izv. vys. ucheb. zav.; gor. zhur. no.8:168-176 '61. (MIRA 15:5)

1. Vostochnyy nauchno-issledovatel'skiy institut po bezopasnosti rabot v gornoj promyshlennosti.  
(Kuznetsk Basin--Coal mines and mining--Electric equipment)